05/27/2008

Patent No. 7,337,383 B1
Application No. 10/772,597
Issue Date: Feb. 26, 2008
Inventor(s) Urbain A. von der Embse

Request for Certificate of Correction

I am requesting that 2 errors be corrected in the issued patent. The first error is my spelling error in the title of FIG. 5. In the second error, the patent office did not include page 2 of the clean version of the claims in my submittal. Enclosed is the $100 fee.

ENCLOSURES

- PTO/SB/21 Transmittal form
- 3 PTO/SB/44 forms
- PTO-2038 fee payment by credit card

Sincerely,

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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,337,383 B1
APPLICATION NO.: 10/772,597
ISSUE DATE : Feb. 26, 2008
INVENTOR(S) : Urbain Alfred von der Embse

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the drawings, Sheet 5, the word "our" in the title should be corrected to read "of".

In Claim 1, column 20, after line 43 please insert the missing page 2 of the submitted clean version of the Claims, which reads as follows:

"for evaluating said a-posteriori probability $p(s'|y(j<k))$ in equations (14) using $p(s|s',y(k))$ as the state transition a-posteriori probability of the trellis transition path $s' \rightarrow s$ to the new state s at k from the previous state s' at k-1 and given the observed symbol y(k) to update these recursions for the assumed value of the user data bits d(k) equivalent to the transmitted symbol x(k) which is the modulated symbol corresponding to d(k),

using a turbo decoding backward recursion equation

$$p(s'|y(j>k-1)= \sum_{\text{all } s} p(s|y(j>k))p(s'|s,y(k))$$

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for evaluating the a-posteriori probability $p(s|y(j>k))$ in equations (15) using said $p(s'|s,y(k))= p(s|s',y(k))$ as the state transition a-posteriori probability of the trellis transition path $s \rightarrow s'$ to the new state s' at k-1 from the previous state s at k and given said observed symbol y(k) to update these recursions for said assumed value of d(k), evaluating the natural logarithm of the state transition posteriori probability $p(s|s',y(k))=p(s'|s,y(k))$ equal to a new decisioning metric DX in equations (11),(16), defined by equation

$$\begin{aligned} \ln[p(s|s',y(k)) &= \ln[p(s'|s,y(k))] \\ &= \mathrm{Re}[y(k)x^*(k)]/\sigma^2 - |x(k)|^2/2\sigma^2 + \underline{p}(d(k)) \\ &= DX \end{aligned}$$

wherein $\underline{p}$ is the natural logarithm ln of p, x^* is the complex conjugate of x, and ln[o] is the natural logarithm of [o],

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whereby said new state transition probabilities in said MAP equations use said DX linear in y(k) in place of the current use of the maximum likelihood decisioning metric"

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